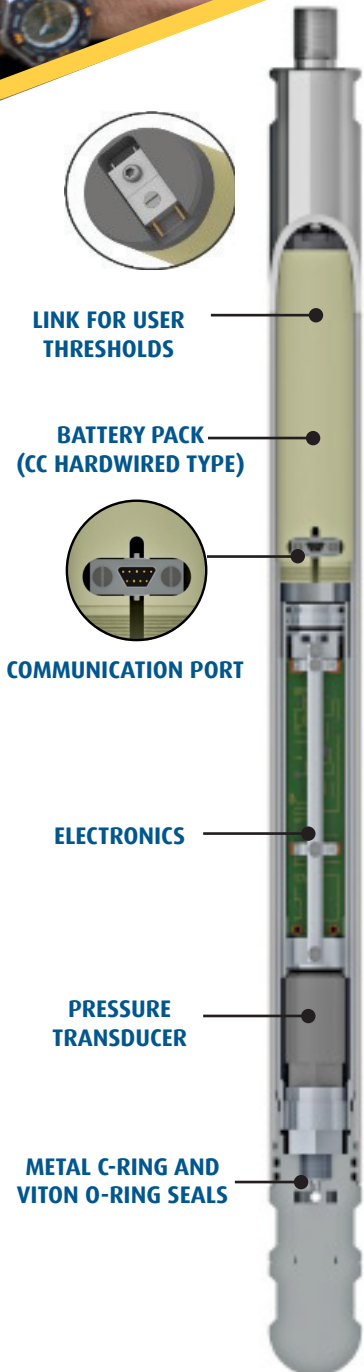


Reservoir Group's Elite Quartz Memory gauge delivers high-performance data acquisition while demonstrating extremely low drift. A real-time-clock for up to the second data accuracy and metal-to-metal seals for ultimate leak protection.

The Elite is a compact 'Short Quartz' pressure and temperature memory gauge and features a very large memory, multi-sample rate capability, automatic Start/Stop functionality and proven quartz pressure transducer technology.

A replaceable silver-coated metal C-Ring provides back-up to a primary metal-to-metal seal incorporated in the design of the gauge metalwork. This in turn is backed up by double O-Ring seals. A torque set metal-to-metal seal arrangement at the pressure transducer combines to give the gauge impenetrable leak protection. The gauge electronics are contained and sealed inside an internal housing which is evacuated and filled with Argon gas.

The Elite Quartz specification is advanced, not only in terms of its extremely low power consumption and very large memory capacity, but in its ability to take advantage of these features and provide a long operating life. The Elite Quartz Gauge when fitted with a large CC size lithium battery is particularly suitable for long duration surveys, depending on conditions, for any period up to 2 years. Fully automatic pressure and temperature thresholds allow the Gauge to start and stop recording without the need for operator input. The gauge is supplied in monitor mode, testing sensor readings every two minutes and automatically starts recording to memory if user-programmed thresholds are exceeded. At the end of the survey, the gauge stops automatically when readings fall below programmed thresholds. The gauge incorporates a removable "Link" that when removed uses higher PT thresholds. This is useful whilst storing the Gauge in warmer conditions where user-programmed thresholds may be exceeded.



Features	Benefits
Large non-volatile memory	Real-time values for easy analysis
Automatic start/stop functionality	No operator input required
Metal-to-metal seals	Eliminates leaks in hostile wells

Elite
for Demanding
Applications

- Pressure build-up or draw-down tests
- Gradient surveys
- Slickline operations

- Reservoir evaluation, well testing and DST
- Production surveys

- Static, flowing and build-up surveys
- Stimulation monitoring

Technical Specifications

Pressure	
Maximum external pressure	Must not exceed sensor range or 15 ksi max
Sensor range	2 options, 10 ksi and 15 ksi
Sensor type	Quartz resonator
Accuracy	<±0.02% FSO
Accuracy typical	±0.01% FSO
Resolution <small>(resolution figures stated in brackets are for 0.1 second sampling interval only)</small>	10 ksi, <0.0025 psi (<0.025 psi) 15 ksi, <0.0033 psi (<0.033 psi)
Temperature	
Maximum temperature	Must not exceed 150°C
Operating range	0°C to 150°C
Accuracy	±1.0°C
Accuracy typical	±0.5°C
Resolution	0.01°C
Power	
Battery type	4 options, single CC hard-wired type lithium and single AA, C, or CC detachable type lithium
Operating voltage	3.2 to 3.9 V
Battery Life*	Up to 2 year**
Memory	
Sampling capacity	0.1 seconds, 1 to 600 seconds and multi-sample rate selection
Memory type	Non-volatile
Capacity**	6 million data sets (60 million data sets)
Record contents	Real time, pressure, temperature
Other	
Materials	SS 17-4 PH, Sub K500 Monel
Service	Standard and H ₂ S

* Battery life varies with temperature of operation, sample rate and battery type fitted.

** 6 Million data sets are achievable based on a 1 second sampling interval but may be limited by battery capacity available and temperature of operation (60 Million data sets are achievable based on a 0.1 second sampling interval but may be limited by battery capacity available and temperature of operation).

Elite, 1.5" OD

